A1705

SMOKE SIGNALS

Air Pollution Control News from Humboldt - Trinity & Del Norte

Vol. 5 No. 1 First Quarter - 1973
5630 South Broadway, Eureka, California 95501 (707) 443-3091

ARB SCHEDULES EUREKA MEETING

The California Air Resources Board will hold one of its May meetings in Eureka on May 3, 1973 at the Eureka City Hall between the hours of 9:30 A.M. and 4:30 P.M. Approximately once a year Humboldt County is fortunate in having this Board hold their regular monthly meeting here on the north coast. The Air Resources Board has recently been restructured by the State Legislature and reduced in size from fourteen members to the present five member board. Still serving as Chairman and the only returning member from the prior Board, will be Dr. A. J. Haagen-Smit, California's most noted authority on automobile air pollution control problems. At the time of publishing this bulletin, the ARB agenda had not yet been received, but persons wishing to appear before the Board may do so at the May 3rd meeting or may forward written comments to the Air Resources Board, 1025 P Street, Sacramento, California 95814.

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VACAPCO Meeting Highlights

At the March 1, 1973 meeting of the Voluntary Association of California Air Pollution Control Officials held in Sacramento, California plans were made to proceed with the drafting of organization bylaws. It was noted that 37 of California's air pollution control districts have expressed an interest in this new organization. Charles Sassenrath was elected Interim Chairman and appointed a bylaws committee consisting of: Clifton Seymour, Ron Nevins, John Maloney, Ed Bigelow, Norman Covell and Dr. Burke Schoensee. The bylaws committee will submit their proposals to the chairman by May 1, 1973 who will distribute copies to be voted on by the membership.

STATE SUBVENTION FUNDING APPROVED

The California Air Resources Board has approved Humboldt County's subvention application for fiscal 1972-73 in the amount of $9,182.00. Applications have also been prepared for transmittal to the Air Resources Board by Del Norte and Trinity Counties.

AIR POLLUTION VIOLATIONS

Air pollution violations rose sharply during the first three months of 1973. Three of the violations were flagrant or second offenses and were referred to the District Attorney's office for further action.

Date		Location	Source	Violation
1-4-73	Ramey Lath Co.	Arcata	Tepee Burner	Rule 50-Visual Emissions
1-5-73	Gospel Outreach	Carlotta	Open Burning	Rule 53-Open Fires
1-10-73	Bracut Lumber	Arcata	Open Burning	Rule 53-Open Fires
1-22-73	Japan Lines	Fields Ldg.	Boiler Stack	Rule 50-Visual Emissions
1-31-73	Cal-Pac. Lbr. Co.	Hoopa	Open Burning	Rule 53-Open Fires
2-6-73	MV Van Enterprise	Eureka	Boiler Stack	Rule 50-Visual Emissions
2-6-73	City Garbage Co.	Eureka	Incinerator	Rule 50-Visual Emissions
2-7-73	Coppini Const.	Ferndale	Open Burning	Rule 53-Open Fires
2-16-73	Leroy East	Scotia	Open Burning	Rule 53-Open Fires
2-21-73	Western Chain Saw	Eureka	Incinerator	Rule 50-Visual Emissions
3-6-73	Franklin Bros.	Arcata	Open Burning	Rule 53-Open Fires
3-12-73	Nor-Cal Ind.	Eureka	Tepee Burner	Rule 10-No Permit
3-27-73	Orleans Veneer	Orleans	Open Burning	Rule 53-Open Fires
3-27-73	Carolina-Pacific	Salyer	Open Burning	Rule 53-Open Fires
3-29-73	South Bay School	Fields Ldg.	Incinerator	Rule 50-Visual Emissions

COMPLAINT SCOREBOARD

Pulp mill odor and smoke complaints showed little change from the first quarter of 1972. Low early morning inversions were quite prevalent during the past three months but good ventilation was usually apparent by noontime. The California Air Resources Board declared four no-burn days during the first quarter, 1973.

	January	February	March
Smoke	17	25	20
Fallout	1	2	0
Pulp mill odor	18	21	36
Miscellaneous other	3	1	1

CYCLONES ELIMINATED

Several high emission cyclone separator systems were replaced by new, more efficient dust collectors during the past few months. Most noteable improvements were made at the Louisiana-Pacific plywood plant where two Carter - Day baghouses replaced three old inefficient cyclones on the plywood sanding operation. Installation of these two new collectors cost approximately $75,000. Three similar Carter - Day baghouses were installed at the Mad River particleboard plant of Sierra Pacific Industries, Humboldt Flakeboard Division at a cost in excess of $90,000. The Louisiana-Pacific Corporation also completed a new collection system at their Samoa planing mill by installing two Aerodyne high inertia separators to control fine sawdust and shavings emissions from the dry planing operations. It has been estimated that these three major projects have eliminated in excess of five tons per day of fine particulate matter which previously was released into the atmosphere.

TRINITY CONTRACT SERVICES

The staff of the Humboldt County Air Pollution Control District is now assisting Trinity County with its air pollution control program. Proposed activities will include inspection, engineering, monitoring and other aspects of the control program as needed to comply with state and federal requirements. An initial tepee burner survey was just recently completed and showed most of the Trinity County burners were inadequately equipped to operate within the regulations. Sierra Pacific's Hayfork burner, which had just recently been extensively modified, was the only acceptable burner observed during this initial inspection. Equipment has been purchased to begin operation of a new particulate sampling station located in Weaverville commencing in April, 1973, thereby completing the North Coast Air Basin sampling network.

COORDINATING COUNCIL ACTIVITIES

The Coordinating Council of the California North Coast Air Basin and its technical staff met in Eureka on April 5, 1973. In one of its most productive sessions to date, action was initiated on two highly controversial subjects; Lake County's request for withdrawal from the basin and the inconsistencies of the state open burning regulations. The Council adopted a resolution concurring with Lake County's request to be designated as a separate air basin apart from the North Coast Basin and voted to present this resolution at the Air Resources Board hearing in Lakeport on May 3, 1973.

The Council also voted to request legislation to correct deficiencies in present state burning laws. Inconsistencies were pointed out in implementing the dump closure program and the restrictions on open burning stipulated in Chapter 10 of the Health and Safety Code. The Council will request Air Resources Board support and corrective legislation to allow the burning of all classes of non-current wood wastes in remote rural areas by special permit, in accordance with criteria to be established by the air pollution control district.

Further studies have also been initiated concerning the formation of a basinwide unified district pending the results of the May 3rd hearing on Lake County's request for designation as a separate air basin.

Following the meeting, the Coordinating Council and staff toured the municipal incineration facilities of the Eureka City Garbage Company.

SUSPENDED PARTICULATE MATTER
(micrograms per cubic meter)*

COUNTY	H U M B O L D T							S O N O M A		DEL NORTE	TRINITY
Date	Eureka Health	Eureka Div. Hwys	Arcata F.S.	North Arcata	Samoa	Blue Lake	Hoopa	Healds-burg	Clover-dale	Crescent City	Weaver-ville
Jan. 4	73	60	100	-	-	62	-	73	50	54	
Jan. 10	17							41	29	38	
Jan. 16	19	16	19	-	38	18	-	25	20	-	
Jan. 22	122							60	45	-	
Jan. 28	64	38	61	55	-	56	-	60	72	-	
Feb. 3	82							27	30	88	
Feb. 9	20	20	29	44	88	24	-	31	24	43	
Feb. 15	65							46	36	55	
Feb. 21	78	135	127	131	204	79	-	74	90	74	
Feb. 27	49							27	29	80	
Mar. 5	32	39	57	43	70	34	-	42	31	33	
Mar. 11	42							39	22	56	
Mar. 17	27	33	27	24	60	22	-	-	22	40	
Mar. 23	64							51	42	77	
Mar. 29	35	75	47	57	-	38	72	38	29	40	22
Max.	122	135	127	131	204	79	72	74	90	88	22

* The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

JANUARY						FEBRUARY						MARCH					
	High Hourly Average			High 2-hr. Interval	Daily Peak		High Hourly Average			High 2-hr. Interval	Daily Peak		High Hourly Average			High 2-hr. Interval	Daily Peak
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	.03	.04	-	-	6	1	.02	.05	.13	.5	3	1	.05	.04	.10	.3	3
2	.03	.03	-	-	6	2	.03	.07	.30	.9	13	2	.03	.04	.04	.4	3
3	.03	.03	.18	-	5	3	.03	.05	.13	.5	12	3	.05	.03	.04	.2	3
4	.02	.05	.28	1.1	3	4	.04	.03	.07	.2	3	4	.04	.04	.10	.4	3
5	.02	.03	.20	.5	3	5	.04	.04	.15	.3	7	5	.05	.04	.08	.3	3
6	.03	.03	.13	1.1	5	6	.03	.06	.19	.6	11	6	.05	.04	.07	.2	8
7	.03	.03	.09	1.0	3	7	.03	.03	.07	.4	3	7	.04	.04	.06	.4	3
8	.04	.03	.21	5	3	8	.02	.04	.08	.4	3	8	.04	.03	.13	.3	6
9	.04	.03	.05	.2	3	9	.04	.03	.10	.2	3	9	.05	.04	.07	.2	3
10	.04	.03	.05	.1	3	10	.05	.04	.09	.7	3	10	.04	.03	.05	.1	3
11	.04	.03	.11	.2	3	11	.04	.03	.04	.2	3	11	.04	.01	.02	.1	6
12	.03	.03	.10	.2	3	12	.04	.04	.09	.3	3	12	.05	.03	.10	.1	8
13	.03	.02	.10	.5	3	13	.04	.03	.10	.3	3	13	.05	.03	.06	.1	7
14	.02	.02	.10	.4	5	14	.04	.04	.07	.3	3	14	.04	.03	.06	-	5
15	.04	.01	.02	.1	3	15	.03	.04	.16	.5	11	15	.04	.04	.16	-	5
16	.04	.03	.03	.1	3	16	.03	.04	.13	.3	5	16	.03	.04	.08	.2	-
17	.04	.04	.06	.3	3	17	.05	.03	.04	.1	7	17	.04	.03	.04	.2	-
18	.04	.04	.08	.2	-	18	.03	.03	.09	.4	8	18	.05	.01	.02	.1	-
19	.05	.04	.17	.3	8	19	.03	.03	.08	.4	7	19	.05	.04	.07	.3	3
20	.04	.03	.07	.2	-	20	.03	.05	.10	.5	8	20	.05	.03	.05	.2	7
21	.03	.03	.12	-	-	21	.03	.06	.22	1.1	3	21	.05	.03	.05	.4	5
22	.02	.05	.26	.6	6	22	.04	.04	.08	.6	4	22	.04	.04	.15	.6	6
23	.04	.06	.38	.7	-	23	.06	.05	.25	.8	7	23	.04	.04	.13	.5	7
24	.05	.04	.08	.4	-	24	.05	.02	.02	.2	3	24	.04	.03	.04	.2	6
25	.04	.03	.04	.3	-	25	.04	.01	.01	.1	3	25	.04	.02	.03	.2	7
26	.03	.04	.15	.7	3	26	.04	.03	.07	.2	3	26	.05	.02	.02	.2	10
27	.02	.05	.12	.9	3	27	.04	.04	.18	.8	3	27	.05	.03	.05	.2	19
28	.05	.04	.06	.2	3	28	.03	.04	.13	.5	3	28	.05	.03	.05	.1	17
29	.06	.04	.07	.4	3	29						29	.04	.03	.05	.2	6
30	.04	.04	.11	.3	6	30						30	.04	.03	.05	.2	6
31	.03	.05	.28	.4	7	31						31	.04	.03	.06	.2	6
Max.	.06	.06	.38	1.1	8	Max.	.06	.07	.30	1.1	13	Max.	.05	.04	.16	.6	19

*Coefficient of haze units per 1000 lineal feet of air sampled.

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HUMBOLDT COUNTY
AIR POLLUTION CONTROL DISTRICT
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SMOKE SIGNALS

Air Pollution Control News from Humboldt - Trinity & Del Norte

Vol. 5 No. 2 Second Quarter - 1973
5600 South Broadway, Eureka, California 95501 (707) 443-3091

BOARD TIGHTENS PULP MILL REGULATIONS

Effective June 26, 1973, new regulations are in effect regarding atmospheric emission limitations for kraft pulp mill recovery furnaces. The new standard of 0.10 grains per standard cubic foot is comparable to the Oregon and Washington restrictions slated to go into effect in 1975. A similar limitation of 0.10 grains per cubic foot was also adopted to apply to particulate emissions from any new or altered steam generating units. A new rule was adopted reducing the allowable total reduced sulfur emissions from the pulp mills to 0.6 pounds per ton of wood processed effective January 1, 1975. The Crown Simpson Pulp Company has already applied for a permit to install additional secondary oxidation facilities in order to meet the new standard. The Louisiana-Pacific mill is presently operating below the new standard.

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In answer to other questions asked at the June 11, 1973 regulation hearing, the Air Pollution Control District is investigating the possibility of establishing a permit system to defray operational expenses of additional in-plant inspectors. A nuisance complaint concerning pulp mill odors and a petition containing over 600 signatures was presented to the Board by Bill Coyle. This petition and further action relating to the public nuisance problem was referred to the District Attorney's Office for further legal study and a report back to the Board.

FEDERAL GRANT APPROVED

The Environmental Protection Agency has approved Humboldt County's air pollution control grant application for $46,230 for fiscal 1973-74. This amount is $9,200 less than the requested $55,430. Federal grant funding is used for Humboldt's air pollution control program and contract services performed in other Northcoast Air Basin Counties, in addition to state subvention funding and local participation.

HEARING BOARD REQUESTS COMPLIANCE BOND

In its first such action to date, the Hearing Board of the Humboldt County Air Pollution Control District required the Britt Lumber Company of Eureka to post a $15,000 compliance bond as a condition of continued operation of its tepee burner until the end of December, 1973. This action stemmed from a long history of complaints concerning operation of the Britt sawmill and burner adjacent to private residences. The Hearing Board decision was appealed to the Superior Court and the lumber firm has agreed to install the necessary burner improvements originally stated in the permit denial. In other actions, the Pacific Lumber Company was granted a six month variance for its tepee burner while installing a new bark hogging device which would eliminate the present burner. The Louisiana-Pacific Carlotta sawmill and Overly Manufacturing Company were granted short term tepee burner variances while the requests of Enevoldsen Lumber Company and Boyd's Wood Products were denied. Orleans Veneer Company was granted a variance until June 1, 1973 to complete installation of a fabric type collector on its plywood sanding system.

CITATION PROCEDURES ESTABLISHED

A procedure has now been established for direct citation of air pollution violations by the enforcement staff of the Humboldt County Air Pollution Control District. These citations will be largely used to implement the new open burning program which became effective December 20, 1972. Open burning for the disposal of any types of waste materials is restricted to permissive burn days as declared by the Air Resources Board. These announcements are made to the public each morning by the local radio stations, the National Weather Service and the local fire control agencies and apply to all open burning in the Humboldt Bay Basin. (Single and two-family dwellings located outside the Humboldt Bay region are exempt from the burn day notifications.) Any persons having questions regarding open burning requirements or procedures should contact their local fire control agencies or the Humboldt County Air Pollution Control District. Fire permits are required for all types of burning.

COMPLAINT SCOREBOARD

Pulp mill odor complaints soared during the past three months with the 87 complaints of June being the highest registered since September, 1971. Smoke complaints were lower than the prior quarter as more tepee burners have completed installation of improved burning systems. The California Air Resources Board declared 33 "no-burn" days during the second quarter, 1973 which included one extended "no-burn" period lasting from May 9-18.

	April	May	June
Smoke	33	11	10
Fallout	2	7	3
Pulp mill odor	31	61	87
Miscellaneous other	0	1	4

ARB TO INVESTIGATE PULP MILLS

At its May 2, 1973 meeting held in Eureka, California, the California Air Resources Board directed its staff to investigate Humboldt County's air pollution control program pertaining to the Crown Simpson and Louisiana-Pacific kraft pulp mills located on the Samoa Peninsula. This investigation was prompted by a complaint from Eureka resident Bill Coyle alleging that the odors created by the mills are a public nuisance. The Humboldt County Air Pollution Control District regulations pertaining to the pulp mills are designed to reduce the emission of odorous materials, but present available technology does not eliminate all sources of mill odor. Many odor complaints have been traced to plant equipment breakdowns or malfunctions which are reported to the control district office. The Air Resources Board plans to complete its investigation by September, 1973 and may expand the study to encompass all California kraft pulp mills for purposes of comparison.

AIR POLLUTION VIOLATIONS

Eighteen air pollution violations were issued during the past three months, mostly for excessive visual emissions from tepee burners or power boilers. On April 23, 1973, the Carolina-Pacific Plywood Company at Salyer was fined $625.00 for open burning of log deck debris. $300.00 of the fine was suspended and the company was placed on one year's probation.

Date		Location	Source	Violation
4-13-73	Roy Morningstar	Blue Lake	Open Burning	Rule 53-Open Fires
4-26-73	Twin Harbors Lbr.	Arcata	Tepee Burner	Rule 10-No Permit
5- 4-73	Stan Stark	Fields Ldg.	Tepee Burner	Rule 10-No Permit
5-18-73	Multi Studs	Loleta	Tepee Burner	Rule 10-No Permit
5-25-73	Louisiana-Pacific	Samoa	Power Blr.-R	Rule 50-Visual Emissions
6- 5-73	Fortuna Veneer core mill	Fortuna	Tepee Burner	Rule 50-Visual Emissions
6- 5-73	Fortuna Veneer	Fortuna	Tepee Burner	Rule 50-Visual Emissions
6- 5-73	Halvorsen Lbr. Co.	Alton	Tepee Burner	Rule 50-Visual Emissions
6- 5-73	Carlotta Lbr. Co.	Carlotta	Tepee Burner	Rule 50-Visual Emissions
6- 6-73	Humboldt Flakeboard	Arcata	Drier #1	Rule 50-Visual Emissions
6- 6-73	Humboldt Flakeboard	Arcata	Drier #2	Rule 50-Visual Emissions
6- 6-73	Humboldt Flakeboard	Arcata	Drier #3	Rule 50-Visual Emissions
6- 7-73	Hollan Del Forest	Arcata	Tepee Burner	Rule 50-Visual Emissions
6- 7-73	McNord Lumber Co.	Blue Lake	Tepee Burner	Rule 50-Visual Emissions
6- 8-73	Pacific Lumber Co.	Scotia	Power Boiler	Rule 50-Visual Emissions
6-18-73	Louisiana-Pacific	Samoa	Power Blr.-CE	Rule 50-Visual Emissions
6-19-73	Alex Christie	Arcata	Open Burning	Rule 53-Open Fires
6-21-73	Cal-Pacific Lbr.	Hoopa	Tepee Burner	Rule 50-Visual Emissions

NORTHCOAST AIR BASIN REVISED

The California Air Resources Board has declared Lake County to be a separate air basin and no longer a part of the Northcoast Basin. After reviewing testimony taken at the May 3rd hearing held in Lakeport, the Air Resources Board acknowledged that Lake County's air pollution problems were very limited and not similar to those of the lumber industry-oriented counties on the coast. Lake County's request for removal from the Northcoast Basin was supported by a resolution from all other adjoing counties. The Northcoast Air Basin now includes Del Norte, Trinity, Humboldt, Mendocino and the northern section of Sonoma County. Studies are presently under way to evaluate the desirability of forming a unified district consisting of all Northcoast Basin counties.

TEPEE TOPICS

During the past three months, extensive tepee burner improvements have been completed by Englewood Lumber Company of Redcrest, California, Cal-Pacific Lumber Company at Orick, Halvorsen Lumber Company at Alton, Louisiana-Pacific at Big Lagoon and the Carolina-Pacific Plywood Corporation at Salyer. Three of the upgraded burners installed Industrial Construction Company modifications and the other two were Lausmann and Medford systems. In Trinity County, the Carolina-Pacific Plywood Corporation helped to eliminate their smoke problems at Burnt Ranch by installation of a Lausmann type modification in their existing tepee burner.

VACAPCO FORMATION DRAGGING

Formation of the Voluntary Association of California Air Pollution Control Officials is moving rather slowly. To date, only two members of the Bylaws Committee have submitted any draft proposals to the Interim Chairman. Further organizational activities are planned for the next scheduled get together in Sacramento on July 25, 1973.

AIR QUALITY SUMMARY

Air quality in the Humboldt Bay Basin during the second quarter of 1973 generally declined because of higher than normal pulp mill emissions and a preponderance of early morning inversions as demonstrated by the declaration of 33 no-burn days during the spring quarter versus only 4 no-burn days in the first quarter of 1973. The higher than expected particulate matter readings in Weaverville may be attributed to excessive emissions from a nearby tepee burner. Total reduced sulfur measurements at Fort Humboldt showed a large increase in May and June which somewhat confirms the increased odor complaint levels reported.

SUSPENDED PARTICULATE MATTER
(micrograms per cubic meter)*

COUNTY	H U M B O L D T							S O N O M A		DEL NORTE	TRINITY
Date	Eureka Health	Eureka Div.Hwys	Arcata F.S.	North Arcata	Samoa	Blue Lake	Hoopa	Healds-burg	Clover-dale	Crescent City	Weaver ville
4- 4	64				-			60	63	88	43
4-10	70	125	86	86	121	120	-	81	64	60	80
4-16	44				-			59	38	36	41
4-22	43	60	43		122	46	-	70	47	40	65
4-28	105			156	173			90	98	92	65
5- 4	37	45	32	49	65	31	29	85	37	35	67
5-10	67				216			115	52	73	74
5-16	36	61	36	65	38	71	164	116	136	27	139
5-22	33				85			72	28	39	84
5-28	49	99	36	39	70	34	175	63	40	39	40
6- 3	47				100			75	55	63	35
6- 9	81	124	100	107	200	72	62	60	32	87	71
6-15	54				-			-	-	42	85
6-21	60	82	64	70	89	109	161	113	-	31	197
6-27	56				-			85	42	51	112
Max.	105	125	100	156	216	120	175	116	136	92	197

* The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

	APRIL					MAY					JUNE				
	High Hourly Average			High 2-hr. Interval	Daily Peak	High Hourly Average			High 2-hr. Interval	Daily Peak	High Hourly Average			High 2-hr. Interval	Daily Peak
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	.05	.02	.03	-	11	1	.05	.03	.06	.2	6	1	.05	.03	.04	-	9
2	.04	.04	.09	-	9	2	.05	.03	.05	.2	5	2	.04	.02	.02	-	11
3	.03	.05	.14	.7	6	3	.04	.03	.05	.4	4	3	.04	.02	.02	-	7
4	.04	.10	.23	.7	-	4	.06	.03	.06	.2	14	4	.04	.04	.05	-	9
5	.04	.05	.13	-	11	5	.05	.02	.02	.1	11	5	.04	.02	.04	.2	11
6	.04	.03	.04	-	10	6	.05	.03	.03	.1	13	6	.04	.02	.04	.2	16
7	.05	.04	.08	-	7	7	.05	.03	.04	.2	16	7	.04	.02	.04	.1	9
8	.05	.03	.03	-	13	8	.04	.04	.05	.3	4	8	.04	.03	.05	.2	9
9	.04	.06	.09	.3	8	9	.05	.03	.03	.1	4	9	.04	.02	.03	-	9
10	.03	.05	.10	.3	14	10	.05	.04	.05	.3	-	10	.04	.02	.02	-	10
11	.05	.04	.06	.3	4	11	.05	.03	.05	.3	-	11	.04	.03	.04	-	13
12	.05	.02	.04	.4	<4	12	.06	.03	.04	.2	-	12	.03	.03	.05	-	10
13	.04	.02	.05	.2	7	13	.06	.04	.04	.2	-	13	.04	.02	.04	-	13
14	.05	.02	.04	.7	11	14	.04	.04	.05	.2	18	14	.03	.03	.04	-	17
15	.04	.02	.03	.2	<4	15	.03	.04	.09	.3	16	15	.03	.03	.06	-	8
16	.04	.03	.05	.2	<4	16	.03	.02	.05	-	11	16	.04	.03	.03	-	<3
17	.05	.02	.04	.2	7	17	.04	.03	.05	-	10	17	.03	.01	.02	-	6
18	.05	.03	.05	.2	6	18	.03	.03	.05	-	11	18	.03	.02	.06	-	18
19	.05	.02	.03	.1	28	19	.05	.02	.03	-	30	19	.03	.02	.03	.2	5
20	.04	.03	.04	.3	9	20	.06	.02	.02	-	13	20	.02	.03	.04	.2	15
21	.05	.02	.04	.4	16	21	.04	.02	.04	.2	15	21	.03	.03	.04	.3	5
22	.05	.02	.02	.2	10	22	.04	.02	.04	.2	11	22	.02	.02	.03	.2	3
23	.05	.02	.04	.2	9	23	.03	.03	.05	.5	<4	23	.03	.03	.04	.2	4
24	.04	.02	.04	.2	12	24	.04	.03	.05	.5	4	24	.03	.02	.02	.3	3
25	.04	.03	.05	.2	14	25	.04	.02	.06	.3	25	25	.02	.02	.04	.4	3
26	.04	.03	.04	-	17	26	.04	.02	.04	.3	17	26	.01	.01	.04	.2	6
27	.05	.02	.03	.4	7	27	.04	.02	.02	.2	35	27	.03	.02	.04	.1	7
28	.05	.02	.03	.1	8	28	.04	.03	.02	.1	< 4	28	.03	.02	.04	.1	26
29	.05	.01	.01	.1	4	29	.06	.03	.05	.1	8	29	.04	.02	.04	.2	8
30	.04	.03	.04	.4	13	30	.05	.02	.05	-	-	30	.03	.02	.02	.1	9
31						31	.05	-	.04	-	5	31					
Max.	.05	.10	.23	.7	28	Max.	.06	.04	.09	.5	35	Max.	.05	.04	.06	.4	26

*Coefficient of haze units per 1000 lineal feet of air sampled.

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AIR POLLUTION CONTROL D
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Air Pollution Control News from Humboldt - Trinity & Del Norte

Volume 5, No. 3 Third Quarter - 1973
5600 South Broadway, Eureka, California 95501 (707) 445-7273

BASIN COUNCIL REQUESTS UNIFIED APCD

At its September 19, 1973 meeting, the Air Pollution Coordinating Council for the North Coast Air Basin passed a resolution urging all counties in the North Coast Air Basin to form a basinwide unified air pollution control district. The Council cited the problems of funding adequate staffs to effectively deal with Air Resources Board and Environmental Protection Agency requirements as one of the major factors affecting its resolution. State and federal funding programs will probably also be enhanced by the formation of a unified basinwide district. Any further action toward forming a unified district now requires the Boards of Supervisors of each of the North Coast Air Basin counties to concur with the council's recommendation and appoint two Board members from each county to formulate a unified district agreement.

The Coordinating Council also passed a resolution requesting the Air Resources Board to exempt the North Coast Air Basin from the complex source review procedures specified in the June 18, 1973 Federal Register. The provisions of Section 51.12 delegates to the Air Resources Board the authority to designate those geographical areas which have a potential for exceeding any national standards within the subsequent 10 year period because of complex sources.

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The Council reviewed and accepted a newly revised "Air Pollution Control Plan for the California North Coast Air Basin." State legislation requires that each air basin update their original implementation plans at least every two years. The revised North Coast plan points out the progress made to date in achieving federal and state air quality standards and it outlines areas of further control required in the next few years in order to attain improved air quality. A copy of the plan is available for public inspection at the Humboldt County Air Pollution Control District, 5600 South Broadway, Eureka, California.

AIR POLLUTION VIOLATIONS

Twenty air pollution violations notices were issued during the past three months mostly for excessive smoke from tepee burners and power boilers. The frequent reoccurrence of power boiler operating difficulties has led several lumber industry firms to undertake major system modifications.

Date	Location	Source	Violation
7- 2-73 Twin Parks	Arcata	Tepee Burner	Rule 10-No Permit
7- 9-73 Crown Simpson	Fairhaven	Power Boiler	Rule 52a-Particulate
7-17-73 Simpson Timber Co.	Arcata	Power Boiler	Rule 50-Visual Emissions
7-25-73 Simpson Timber Co.	Fairhaven	Power Boiler	Rule 50-Visual Emissions
7-27-73 Cal-Pacific	Orick	Tepee Burner	Rule 50-Visual Emissions
7-27-73 Arcata Redwood Co.	Arcata	Cyclone	Rule 50-Visual Emissions
7-26-73 Orleans Veneer	Arcata	Tepee Burner	Rule 50-Visual Emissions
8- 1-73 Pacific Lumber Co.	Scotia	Power Boiler	Rule 52a-Particulate
8- 7-73 Ed. Davenport	Eureka	Open Burning	Rule 53-Open Fires
8-16-73 McNord Lumber Co.	Blue Lake	Tepee Burner	Rule 50-Visual Emissions
8-21-73 Mulkey & Kovacovich	Eureka	Incinerator	Rule 50-Visual Emissions
8-23-73 Cal-Pacific	Orick	Tepee Burner	Rule 50-Visual Emissions
8-24-73 Humboldt Fir	Hoopa	Tepee Burner	Rule 10-No Permit
8-30-73 Northcoast Steam Clg.	Eureka	Open Burning	Rule 53-Open Fires
9- 6-73 Carlotta Lumber Co.	Carlotta	Tepee Burner	Rule 50-Visual Emissions
9-18-73 Simpson Timber Co.	Korbel	Tepee Burner	Rule 50-Visual Emissions
9-23-73 Medford Veneer	Cres. City	Tepee Burner	Rule 50-Visual Emissions
9-27-73 Walter Eich	Eureka	Open Burning	Rule 53-Open Fires
9-28-73 McNord Lumber Co.	Blue Lake	Tepee Burner	Rule 50-Visual Emissions
9-28-73 Hollan Del Forest	Arcata	Tepee Burner	Rule 50-Visual Emissions

TRINITY GRANTS TEPEE VARIANCES

At its October 4, 1973 meeting, the Hearing Board of the Trinity County Air Pollution Control District granted tepee burner variance extensions to Kimberly Clark Corporation, Hyampom Lumber Company and Trinco Forest Products Company. The Kimberly Clark Corporation has made extensive improvements to its burner and was granted a variance until December 31, 1973 to complete its burner check-out programs. Inspection of the burner on October 15, 1973 showed it to be in compliance with start-up requirements and ready for permit issuance. Hyampom Lumber Company was granted a variance until February 15, 1974 to bring its burner into compliance and Trinco Forest Products Company was granted a variance until June 1, 1974 to complete its proposed burner improvement program.

Completion of these three burner improvements should put all air pollution sources in Trinity County in compliance with county regulations.

PULP MILL INVESTIGATION COMPLETED

The California Air Resources Board has completed its investigation of air pollution control facilities at all four of California's kraft pulp mills. A draft report of the Air Resources Board staff findings was presented to the Board on October 17th. Testimony and further comments on the report will be heard at the November 12th Air Resources Board meeting scheduled to be held in Sacramento. The report pointed out in detail comparative particulate matter and odor control devices used by each of the mills and rated emissions on the basis of pounds per ton of pulp production. Louisiana-Pacific and Fibreboard rated highest in odor control, followed by Crown Simpson and Simpson Lee. For particulate matter control, Fibreboard rated first followed by Louisiana-Pacific, Crown Simpson and Simpson Lee. Since the start of this investigation, the Simpson Lee Paper Company has announced plans for a new 8.5 million dollar recovery furnace system designed for improved odor and particulate control and Fibreboard has indicated plans for a new electrostatic precipitator on its older recovery furnace. One of the more precident setting aspects of the Air Resources Board report was their suggested total reduced sulfur emission control regulation designed to employ latest "state of the art" TRS control methods to reduce mill odor to the lowest possible level.

NEW ENGINEERING POSITION PROPOSED

The Humboldt County Air Pollution Control District is in the process of obtaining Civil Service Commission approval for a new position of Associate Air Pollution Control Engineer. This new opening will be available following a job reclassification and the departure of Jack Caufield on November 2, 1973. Jack has accepted a position as environmental engineer for TOSCO PETRO of Bakersfield, California where he will be responsible for coordinating company environmental activities. Although Jack started with the department three years ago as a chemist, his activities have carried over into inspection and engineering in the last few years and he most recently started the control programs in Trinity and Del Norte Counties.

Persons interested in applying for the new engineering position should contact the Humboldt County Personnel Department, Courthouse, Eureka, California 95501.

COMPLAINT SCOREBOARD

Pulp mill odor complaints remained at higher than normal levels during July and August. The 117 odor complaints registered in July was the highest number of odor problems reported since June, 1971.

	July	August	September
Smoke	18	16	19
Fallout	1	9	10
Pulp mill odor	117	59	35
Miscellaneous other	3	1	1

SUSPENDED PARTICULATE MATTER
(micrograms per cubic meter)*

COUNTY	HUMBOLDT							SONOMA		DEL NORTE	TRINITY
Date	Eureka Health	Eureka Div.Hwys	Arcata F.S.	North Arcata	(C.G.) Samoa	Blue Lake	Hoopa	Healds-burg	Clover-dale	Crescent City	Weaver-ville
7-3	23	43	43	63	40	50	47	132	105	29	-
7-9	81	-	-	-	112 (65)	-		84	110	109	100
7-15	40	55	32	32	78 (53)	38	160	102	53	17	59
7-21	62	-	-	-	69 (41)	-		68	101	41	-
7-27	65	62	83	87	201 (97)	108	126	-	108	75	-
8-2	92	-	-	-	127 (116)	-	-	73	96	48	88
8-8	41	55	42	38	37 (33)	49	71	50	61	23	132
8-14	52	-	-	-	61 (38)	-	-	76	128	31	136
8-20	48	77	39	76	65 (45)	54	61	111	105	42	104
8-26	61	-	-	-	118 (72)	-	-	50	-	53	117
9-1	109	129	93	-	182 (-)	77	-	114	65	54	97
9-7	58				130 (80)			61	53	57	52
9-13	54	57	52	63	98 (51)	54	-	50	54	33	89
9-19	-				104 (42)			42	31	41	-
9-25	63	72	58	70	107 (-)	40	-	45	26	65	77
Max.	109	129	93	87	201 (116)	108	160	132	128	109	132

* The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

JULY

	High Hourly Average			High 2-hr. Interval	Daily Peak
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	.03	.01	.02	.1	11
2	.03	.02	.04	.1	3
3	.03	.02	.04	.2	<3
4	.02	.01	.02	.0	<3
5	.03	.01	.04	.2	7
6	.02	.01	.04	.1	<3
7	-	.01	.02	.1	7
8	-	.01	.02	.1	7
9	-	.02	.05	.2	7
10	-	.01	.03	.1	11
11	-	.02	.04	.2	10
12	.02	.03	.03	.2	10
13	.03	.02	.03	.4	<3
14	.03	.02	.03	.0	6
15	.03	.02	.02	.1	<3
16	.03	.02	.04	.1	<3
17	.03	.02	.05	.2	<3
18	.03	.02	.06	.1	9
19	.03	.03	.05	.1	<3
20	.03	.02	.05	.1	21
21	.03	.01	.03	.2	12
22	.03	.01	.02	.1	25
23	.03	.02	.04	.1	36
24	.03	.03	.05	.5	16
25	.04	.03	.05	1.3	6
26	.03	.03	.06	.3	14
27	.03	.02	.03	.4	<3
28	.03	.02	.02	.1	9
29	.03	.01	.02	.2	7
30	.02	.02	.04	.1	7
31	.02	.02	.06	.2	4
Max.	.04	.03	.06	1.3	36

AUGUST

	High Hourly Average			High 2-hr. Interval	Daily Peak
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	.03	.02	.04	.2	4
2	.03	.02	.05	.2	<3
3	.02	.02	.05	.2	10
4	.02	.02	.03	.2	7
5	.04	.01	.02	.2	5
6	.03	.02	.05	-	<3
7	.03	.02	.04	.4	4
8	.02	.03	.05	.2	10
9	.03	.02	.05	.2	19
10	.03	.02	.05	.2	22
11	.04	.03	.04	.1	<3
12	.04	.02	.03	.2	7
13	.03	.02	.06	.2	6
14	.04	.03	.05	.2	6
15	.04	.02	.04	.2	5
16	.04	.02	.03	.3	19
17	.03	.03	.05	.4	24
18	.03	.02	.02	.2	16
19	.03	.02	.02	.2	10
20	.03	.02	.05	.2	>35
21	.03	.02	.04	.2	20
22	.03	.03	.04	.5	7
23	.03	.04	.09	.8	4
24	.02	.02	.04	.4	7
25	.03	.02	.03	.2	15
26	.03	.02	.03	.3	4
27	.03	.02	.04	.3	13
28	.05	-	-	.6	9
29	.03	-	-	.2	13
30	.03	.02	.04	.2	17
31	-	-	-	.3	22
Max.	.04	.04	.09	.8	>35

SEPTEMBER

	High Hourly Average			High 2-hr. Interval	Daily Peak
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	-	-	-	.4	8
2	-	-	-	.2	4
3	-	-	-	.1	13
4	.02	-	-	-	<3
5	.03	-	-	-	<3
6	.02	-	-	-	11
7	.04	.02	.04	.1	11
8	.04	.02	.02	.5	13
9	.06	.04	.06	.3	23
10	.07	.02	.04	.2	8
11	.07	.03	.05	.2	7
12	.05	.03	.06	.2	8
13	.04	.04	.06	.2	6
14	.03	.05	.12	.4	6
15	.03	.02	.03	.8	9
16	.03	.04	.05	.1	6
17	.03	.05	.09	.2	5
18	.02	.03	.07	.6	7
19	.03	.02	.03	.4	4
20	.03	.02	.04	.4	6
21	.03	.03	.05	.4	9
22	.04	.02	.02	.2	9
23	.04	.01	.02	.1	3
24	.03	.02	.05	.2	9
25	.03	.02	.04	.3	10
26	.03	.05	.13	1.0	13
27	.03	.03	.15	.5	15
28	.04	.06	.07	1.2	23
29	.03	.03	.04	.2	6
30	.03	.02	.02	.2	7
31					
Max.	.07	.06	.15	1.2	23

*Coefficient of haze units per 1000 lineal feet of air sampled.

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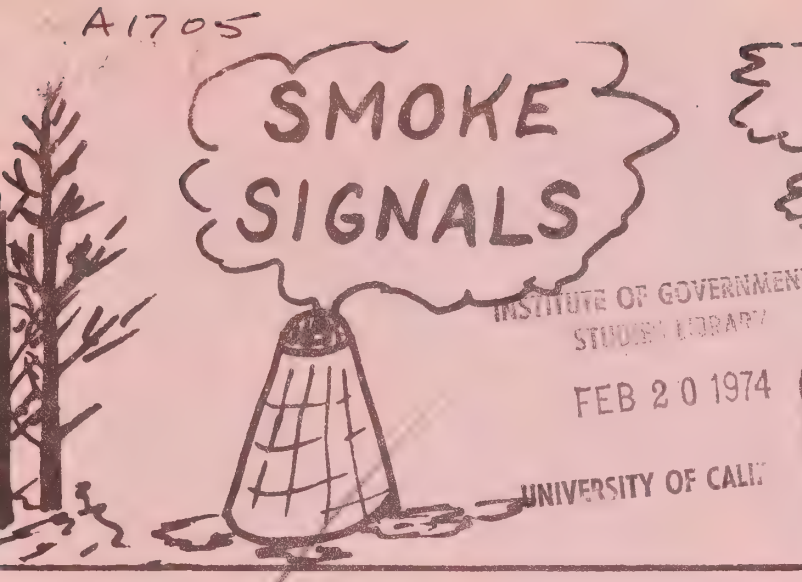

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Air Pollution Control News from Humboldt - Trinity & Del Norte

Vol. 5, No. 4 Fourth Quarter - 1973
5600 South Broadway, Eureka, California 95501 (707 445-7273

PLANS SET FOR UNIFIED DISTRICT

Representatives from Sonoma, Mendocino and Humboldt Counties agreed on December 14, 1973 to proceed with formation of a North Coast Unified Air Pollution Control District. Unification plans are being formulated to include these three counties and invitations to join in the unified district were extended to Del Norte and Trinity Counties, although they were not represented at the December 14, 1973 meeting. Agreement was reached by the committee on individual county representation, voting procedures, expense allocation, and hearing board selection. Staff members have been instructed to proceed with drafting of a formal unified district agreement to be adopted at the next unification committee meeting in Santa Rosa on January 17, 1974. Cost of operating the unified district will be pro-rated based on current population figures and the voting distribution on the unified district board specifies three votes for Humboldt County, two votes for Mendocino County and one vote each for Northern Sonoma, Del Norte and Trinity Counties. After the unified district agreement is accepted by all participating county delegates, it will be forwarded to the individual County Boards of Supervisors for their consideration. Present plans are for the new multi-county district to commence operation starting July 1, 1974.

DEL NORTE HEARING BOARD HOLDS FIRST MEETING

The Hearing Board of the Del Norte County Air Pollution Control District met for the first time on November 15, 1973 to hear variance requests from two lumber industry firms. The Standard Plywood Corporation was granted a variance until October 31,1974 from the opacity standard of Rule 40 of the Del Norte Air Pollution Control District, while installing a new wood fired drying system which would result in elimination of their tepee burner. The Hambro Forest Products Company was also granted a variance until October 31, 1974 from the same rule while installing a new wood fired boiler system to incinerate their particleboard drier emissions.

AIR POLLUTION VIOLATIONS

Seventeen air pollution violation notices were issued during the past three months. Several of these were for modified tepee burners which were no longer able to obtain auxiliary fuel to assist in burner startup. The recurrent violations of the Twin Parks Lumber Company of Arcata and Carlotta Lumber Company of Carlotta, were turned over to the District Attorney's Office for further action.

Date	Location	Source	Violation
10-12-73 Crown Simpson	Fairhaven	Recovery Fur.	Rule 52c-Particulate
10-15-73 Carolina-Pacific	Burnt Ranch	Tepee Burner	Rule 40-Visual Emissions
10-18-73 Enevoldsen Lbr.	Fortuna	Tepee Burner	Rule 50-Visual Emissions
10-26-73 North Bay Disposal	Arcata	Open Burning	Rule 53-Open Fires
11-1-73 Mercer Fraser	Willow Creek	Asphalt Plant	Rule 50-Visual Emissions
11-2-73 Twin Parks	Arcata	Tepee Burner	Rule 10-No Permit
11-15-73 McIntosh Lbr.	Blue Lake	Tepee Burner	Rule 50-Visual Emissions
11-21-73 McNord Lumber Co.	Blue Lake	Tepee Burner	Rule 50-Visual Emissions
11-25-73 Simpson Timber Co.	Fairhaven	Power Boiler	Rule 50-Visual Emissions
11-29-73 Carlotta Lumber Co.	Carlotta	Tepee Burner	Rule 50-Visual Emissions
12- 4-73 Gene Senestraro	Eureka	Open Burning	Rule 53-Open Fires
12- 6-73 Ramey Lath	Arcata	Tepee Burner	Rule 50-Visual Emissions
12- 6-73 James Redwood	Arcata	Tepee Burner	Rule 10-No Permit
12-14-73 PVM Lumber Company	Arcata	Tepee Burner	Rule 50-Visual Emissions
12-15-73 Mission Fence	Arcata	Tepee Burner	Rule 50-Visual Emissions
12-15-73 Twin Parks	Arcata	Tepee Burner	Rule 10-No Permit
12-21-73 McAlister Lath	Bayside	Tepee Burner	Rule 50-Visual Emissions

COMPLAINT SCOREBOARD

Heavy rains kept pulp mill odor complaints at lower than normal levels through the last quarter of 1973. One unusual situation occurred on the afternoon of October 16, 1973 when a total of 33 complaints were received by the Humboldt County Air Pollution Control District, mostly from the area west of Broadway in Eureka. The complaints related to a choking sensation being experienced by those persons exposed. The mysterious cloud then was suddenly dispersed toward Henderson Center, Sequoia Park, and finally disappeared. The problem is suspected to have been caused by a sudden release of chlorine dioxide or sulfur dioxide from one of the pulp mill bleach systems but an exact source has not been located. Both mills have reviewed their operations to eliminate possible reoccurrences.

	October	November	December
Smoke	23	8	25
Fallout	6	1	0
Pulp mill odor	19	8	11
Miscellaneous other	39	1	1

PULP MILL RULE CHANGE SCHEDULED

The Humboldt County Air Pollution Control Board has set January 22, 1974 as the date it will hear testimony regarding the new kraft pulp mill TRS emission regulations proposed by the California Air Resources Board. Major changes proposed in the regulations are a 10 part per million recovery furnace TRS emission limit and a 10 part per billion ambient TRS concentration limit. Also to come under discussion will be a consideration of several alternative schemes for more reliable and consistent TRS emission monitoring. Strong industry objections are suspected regarding several of the Air Resources Board recommendations.

ENERGY & AIR POLLUTION

Various air pollution and environmental programs are coming under increased criticism by industrial and governmental representatives and the public at large. Forgetting about their automatic transmissions and air conditioning systems, the drivers of huge palaces on wheels are blaming smog devices alone for their shrinking gas mileage. State and federal pollution control laws are being relaxed to conserve fuel. One hears very little of the positive aspects of the energy crisis, but here on the north coast, lumber firms are converting to increased usage of wood wastes in lieu of oil or gas heating systems. Some companies are becoming almost totally self sufficient in supplying their own heat and electric power.

It is interesting to note that The Pacific Lumber Company at Scotia no longer operates its tepee burners but uses all its bark, sawdust and shavings to fuel its power plant. Likewise, the Louisiana-Pacific Corporation at Samoa has eliminated its wood waste burning. The Standard Plywood Company at Crescent City has finalized plans for a totally self supporting waste utilization system which will result in purchased fuel savings of over $25,000 per month. Although auxiliary fuel is no longer available to aid in quick tepee burner startup, many such burners are being eliminated as the wood wastes are completely utilized for other purposes. Yes, the energy crisis may awaken all America to a new wave of practical conservation and indirectly solve pollution problems that were created by our own selfish busyness.

HCAPCD OFFICE MOVED

The office facilities of the Humboldt County Air Pollution Control District have been relocated to 5600 South Broadway approximately 150 feet from our prior site. This move into an adjacent County owned building relieved our prior crowded facilities by approximately a 1,500 square foot addition. Our old building has been retained for use as a laboratory. Our new telephone number is (707) 445-7273.

POWER BOILER VARIANCES GRANTED

The Hearing Board of the HCAPCD has granted one year variances to The Pacific Lumber Company and the Louisiana-Pacific Corporation to allow modifications to bring their boilers into compliance with the particulate emission limits of Rule 52 of the Air Pollution Control District. Both firms plan to install wet scrubbers on existing power boilers, while the Louisiana-Pacific Corporation, in addition, plans to install a new wood fired power boiler. Variances were granted to Sierra Pacific Industries, Humboldt Flakeboard Division and Arcata Redwood Company until December 31, 1973. Humboldt Flakeboard installed wet scrubbers on its three particle driers to eliminate particulate and hydrocarbon emissions. Fabric type collectors are being installed on top of the cyclones at the Arcata Redwood Company's Brainard plant. The variance applications of Carlotta Lumber Company and Humboldt Redwood Manufacturing Company were denied for lack of a positive plan of corrective action.

NEW ENGINEERING POSITION APPROVED

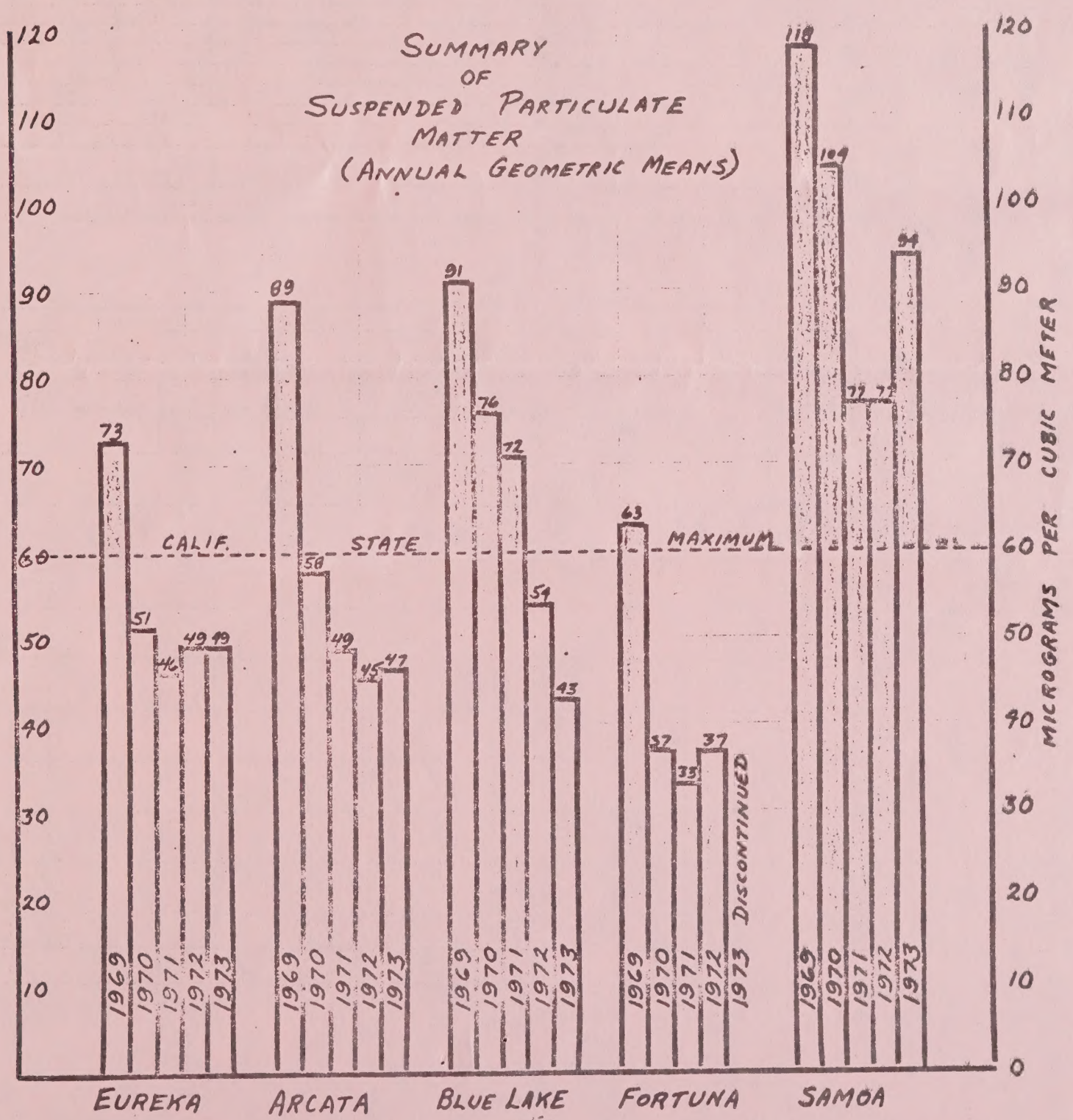
The Civil Service Commission has approved a new position of Air Pollution Engineer to replace the deleted position of Air Pollution Chemist. The person chosen for this new job will handle control program activities in other counties in the North Coast Air Basin and will assist with organization of the unified district, if it is approved by the Boards of Supervisors. Minimum qualifications call for a degree in mechanical or chemical engineering and three years engineering experience. Salary will range from $1,149-1,397 per month. Interested applicants should contact the Humboldt County Personnel Department, Courthouse, Eureka, California 95501.

EUREKA SMOG STUDY COMPLETED

The Humboldt County Air Pollution Control District with the assistance of equipment on loan from the California Air Resources Board has completed a two year study of photochemical smog pollutant concentrations in the Eureka area. This study well documented our earlier presumptions that the nitrogen oxides and oxidants which are characteristic of automotive type air pollution, are not a serious problem in the North Coast Air Basin. Visibility obscuration is mainly caused by particulate matter emissions associated with the burning of wood wastes and from other wood industry process sources. The maximum hourly average nitrogen dioxide reading of [redacted]11 ppm occurred on October 25, 1972 and is well below the California State standard of [redacted]25 ppm. The maximum hourly oxidant concentration recorded was a reading of 0.090 ppm which occurred on September 16, 1971. This value is slightly below the California State standard of 0.100 ppm, but exceeds the EPA standard of 0.080 ppm on this one occasion.

AIR QUALITY SUMMARY

Suspended particulate matter readings for Eureka, Arcata and Crescent City during 1973 remained at about the same levels as experienced during 1972 with all three locations falling below the California annual mean of 60 micrograms per cubic meter. The Blue Lake area showed a major drop from 54 to 43 micrograms per cubic meter, while the Samoa sample site increased from 77 to 94 micrograms per cubic meter. Much of the weight on the Samoa filters seems to be caused by salt spray and wind blown sand; so the sampling site is being elevated to a higher location in hopes of eliminating these ground level effects. This phenomena seems to be occurring at several other sea coast sample sites in Mendocino County and may actually represent a background value higher than the allowable standards.



SUSPENDED PARTICULATE MATTER
(micrograms per cubic meter)*

COUNTY	HUMBOLDT							SONOMA		DEL NORTE	TRINITY
Date	Eureka Health	Eureka Div. Hwys	Arcata F.S.	North Arcata	Samoa	Blue Lake	Hoopa	Healds-burg	Clover-dale	Crescent City	Weaver ville
10- 1	70				156			116	56	51	-
10- 7	38	53	33	22	66	27	-	29	16	-	-
10-13	57				160			90	66	42	78
10-19	55	60	64	49	146	34		24	89	69	112
10-25	62				124			50	27	47	56
10-31	59	58	-	51	133	-		85	54	67	93
11- 6	31				53			27	22	-	30
11-12	24	22	18	27	55	15		28	31	35	-
11-18	32				-			32	22	22	-
11-24	52	50	31	27	67	19		32	30	60	-
11-30	15			29	46			41	23	41	25
12- 6	27	26	33	38	131	38		90	75	54	54
12-12	23				-			38	50	-	
12-18	75	66	63	70	137	42		74	71	57	42
12-24	28				-			36	41	60	
12-30	62	58	33	22	-	27		32	27	38	33
Max.	75	66	64	70	160	42		116	89	69	112

* The California maximum allowable value is 100 micrograms per cubic meter for a 24 hour sample.

AIR QUALITY SUMMARY - EUREKA

	OCTOBER					NOVEMBER						DECEMBER					
	High Hourly Average			High 2-hr. Interval	Daily Peak	High Hourly Average			High 2-hr. Interval	Daily Peak		High Hourly Average			High 2-hr. Interval	Daily Peak	
Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)	Date	Oxidant (KI ppm)	NO_2 (ppm)	NO_x (ppm)	Particulates COH Units*	TRS (ppb)
1	.03	.03	.12	1.3	10	1	.04	.03	.05		7	1	.05	.03	.04	.4	< 3
2	.03	.03	.07	-	3	2	.02	.03	.13		<3	2	.03	.03	.09	1.1	< 3
3	.04	.04	.11	-	8	3	.03	.03	.04		<3	3	.03	.03	.07	.4	8
4	.05	.04	.15	-	12	4	.04	.02	.02		<3	4	.02	.03	.12	.8	3
5	.03	.03	.11	-	8	5	.04	.02	.03		<3	5	.03	.03	.11	.7	4
6	.03	.03	.06	.2	3	6	.03	.04	.06		5	6	.03	.03	.08	.5	3
7	.03	.03	.08	-	10	7	.02	.05	.21		8	7	.03	.04	.08	.4	4
8	.02	.03	.06	-	10	8	.02	.02	.02		<3	8	.02	.03	.05	.4	13
9	.02	.04	.06	-	21	9	.03	.03	.05		<3	9	.01	.03	.05	.4	7
10	.04	.03	.05	-	16	10	.04	.02	.02		<3	10	.03	.02	.10	.8	6
11	.04	.03	.07	-	10	11	.04	.03	.07		<3	11	-	.02	.04	.2	< 3
12	.02	.03	.15	.4	8	12	.05	.03	.06		<3	12	*1	*1	*1	.3	< 3
13	.03	.03	.04	.3	13	13	.05	.04	.06		<3	13				.4	N.D.
14	.03	.03	.04	.2	8	14	.04	.03	.05		<3	14				1.0	<3
15	.03	.03	.06	.3	15	15	.04	.02	.02		<3	15				.4	<3
16	.02	.05	.13	.4	16	16	.04	.05	.12		<3	16				.2	<3
17	.02	.03	.06	.5	9	17	.04	.03	.05		11	17				1.4	<3
18	.06	.04	.05	.3	8	18	.04	.03	.04		10	18				1.0	<3
19	.02	.03	.08	.5	3	19	.03	.05	.15		3	19				.9	<3
20	.02	.03	.04	.2	5	20	.04	.03	.07		11	20				.3	<3
21	.03	.03	.04	-	7	21	.04	.03	.07		<3	21				.4	<3
22	.05	.03	.06	-	6	22	.04	.03	.05		6	22				.4	<3
23	.04	.03	.09	-	<3	23	.04	.02	.05		8	23				.5	<3
24	.03	.04	.10	.6	4	24	.03	.03	.11		<3	24				.4	6
25	.03	.03	.08	.5	7	25	.04	.02	.04		<3	25				.8	< 3
26	.03	.03	.12	.6	4	26	.03	.02	.10		<3	26				.6	< 3
27	.03	.03	.09	.8	9	27	.04	.02	.03	.2	<3	27				.4	< 3
28	.05	.02	.02	.3	8	28	.03	.03	.08	.2	<3	28				1.7	< 3
29	.04	.03	.07	.6	5	29	.04	.03	.07	.9	<3	29				.4	N.D.
30	.04	.05	.09	.6	9	30	.04	.03	.06	.5	<3	30				2.2	N.D.
31	.03	.03	.05	.2	10	31						31				1.1	N.D.
Max.	.06	.05	.15	1.3	21	Max.	.05	.05	.21	.9	11	Max.	.05	.04	.12	2.2	13

*Coefficient of haze units per 1000 lineal feet of air sampled.

*1 Monitoring of oxidant, NO_2, and NO_x has been terminated.

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Smoke signals : quarterly news bulletin of the Humboldt County Air Pollution Control District.

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